

[illegible]

<120> ARTIFICIAL ANTIBODY POLYPEPTIDES

<150> US 60/217,474

<151> 2000-07-11

<160> 121

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<211> 14

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<213> Unknown

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<223> Anti-hen egg lysozyme (HEL) antibody.

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Ala Arg Glu Arg Asp Tyr Arg Leu Asp Tyr Trp Gly Gln Gly

1 5 10

 $\langle 210 \rangle$ 2

<211> 17

<212> PRT

<213> Unknown

$\langle 220 \rangle$

<223> An anti-HEL single VH domain termed VH8.

<400> 2

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1 5 10 15

Gly

 $\langle 210 \rangle$ 3

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3

Tyr Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile

1 5 10 15

$\langle 210 \rangle$ 4

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 $\langle 220 \rangle$

<223> Mutant D1.3-1.

<400> 4

protein database

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1 5 10

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<400> 10
Tyr Ala Val Thr Glu Arg Asp Tyr Arg Leu Ser Ser Lys Pro Ile
1 5 10 15

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<400> 11
Tyr Ala Val Ala Val Val Ser Tyr Tyr Ala Met Asp Tyr Pro Ile
1 5 10 15

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<223> Mutant VH8-2.

<400> 12
Tyr Ala Val Thr Ala Val Val Ser Tyr Tyr Ala Ser Ser Lys Pro Ile
1 5 10 15

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<400> 13
cgggatccca tatgcaggtt tctgatgttc cgcgtgacct ggaagttggt gctgcgacc 59

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<400> 14
taactgcagg agcatcccag ctgatcagca ggctagtcgg ggtcgcagca acaac 55

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<400> 15
ctcctgcagt taccgtgcgt tattaccgta tcacgtacgg tgaaaccggt g 51

<210> 16
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<220>
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<400> 16
gtgaattcct gaaccgggga gttaccaccg gtttcaccg 39

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<220>
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<400> 17
aggaattcac tgtacctggt tccaagtcta ctgctaccat cagcgg 46

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<400> 18
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<210> 19
<211> 32
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<223> Oligonucleotide FN4F.

<400> 19
cgggtgtcga ctataccatc actgtatacg ct 32

<210> 20
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<220>
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<400> 20
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<400> 21
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<400> 22
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<210> 23
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<220>
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<210> 24
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<400> 24
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39

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<223> Oligonucleotide FG2.

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51

<210> 31

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<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 211.

<400> 31

Cys Ala Arg Arg Ala

1

5

<210> 32

<211> 7

<212> PRT

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<220>

<223> The sequence of the FG loop of ubiquitin-binding
monobody clone 211.

<400> 32

Arg Trp Ile Pro Leu Ala Lys

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5

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<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 212.

<400> 33

Cys Trp Arg Arg Ala

1 5

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monobody clone 213.

<400> 35
Cys Lys His Arg Arg
1 5

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monobody clone 213.

<400> 36
Phe Ala Asp Leu Trp Trp Arg
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<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 214.

<400> 37
Cys Arg Arg Gly Arg
1 5

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<400> 38
 Arg Gly Phe Met Trp Leu Ser
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<400> 39
 Cys Asn Trp Arg Arg
 1 5

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<210> 42
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<220>
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<400> 42
 Pro Pro Trp Arg Val

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium at 28°C for 24 h. The cell concentration of the strains was adjusted to 1.0 × 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and the transformation efficiency was determined. The results are shown as the mean ± SD of three independent experiments. The asterisk indicates a significant difference (*P* < 0.05) between the two strains.

<220>
<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 422.

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<210> 44
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<400> 44
Arg Arg Trp Trp Trp
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<210> 45
<211> 5
<212> PRT
<213> Artificial Sequence
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<220>
<223> The sequence of the BC loop of ubiquitin-binding
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Gly Gln Arg Thr Phe
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<210> 46
<211> 5
<212> PRT
<213> Artificial Sequence
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<220>
<223> The sequence of the FG loop of ubiquitin-binding
monobody clone 424.
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Arg Arg Trp Trp Ala
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<210> 47
<211> 5
<212> PRT
<213> Unknown
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<213> Artificial Sequence

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<400> 52

Arg Trp Gly Met Leu Arg Arg

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<210> 53

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB24.3.

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Ala Arg Met Arg Glu

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<211> 7

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<223> The sequence of the FG loop of clone pLB24.3.

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<211> 5

<212> PRT

<213> QArtificial Sequence

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<223> The sequence of the BC loop of clone pLB24.4.

<400> 55

Cys Ala Arg Arg Arg

1 5

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<212> PRT

<213> Artificial Sequence

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<223> The sequence of the FG loop of clone pLB24.4.

<400> 56

Arg Arg Ala Gly Trp Gly Trp

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<210> 57

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Cys Asn Trp Arg Arg
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<210> 58
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<223> The sequence of the FG loop of clone pLB24.5.

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Arg Ala Tyr Arg Tyr Arg Trp
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<223> The sequence of the BC loop of clone pLB24.6.

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Arg Trp Arg Glu Arg
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Gly Arg Gly Ala Gly
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<223> The sequence of the FG loop of clone pLB24.9.

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Phe Gly Ser Phe Glu Arg Arg

404202440560

1 5

<210> 67
<211> 5
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<213> Artificial Sequence

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<223> The sequence of the BC loop of clone pLB24.11.

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Cys Arg Trp Thr Arg
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<211> 7
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<213> Artificial Sequence

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<223> The sequence of the FG loop of clone pLB24.11.

<400> 68
Arg Arg Trp Phe Asp Gly Ala
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Cys Asn Trp Arg Arg
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<213> Artificial Sequence

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Arg Ala Tyr Arg Tyr Arg Trp
1 5

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<223> The sequence of the BC loop of WT from library #4.

<400> 71
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 1 5

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 <212> PRT
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<400> 72
 Gly Arg Gly Asp Ser
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 <211> 5
 <212> PRT
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<400> 73
 Gly Gln Arg Thr Phe
 1 5

<210> 74
 <211> 5
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 <213> Artificial Sequence

<220>
 <223> The sequence of the FG loop of clone pLB25.1.

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 Arg Arg Trp Trp Ala
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 <213> Artificial Sequence

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 Gly Gln Arg Thr Phe
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<210> 76
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<223> The sequence of the FG loop of clone pLB25.2.

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Arg Arg Trp Trp Ala
1 5

<210> 77

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> The sequence of the BC loop of clone pLB25.3.

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Gly Gln Arg Thr Phe
1 5

<210> 78

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.3.

<400> 78

Arg Arg Trp Trp Ala
1 5

<210> 79

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB25.4.

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Leu Arg Tyr Arg Ser
1 5

<210> 80

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.4.

<400> 80

Gly Trp Arg Trp Arg
1 5

<210> 81

<211> 5

<212> PRT

<213> Artificial Sequence

<220>
<223> The sequence of the BC loop of clone pLB25.5.

<400> 81
Gly Gln Arg Thr Phe
1 5

<210> 82
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> The sequence of the FG loop of clone pLB25.5.

<400> 82
Arg Arg Trp Trp Ala
1 5

<210> 83
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> The sequence of the BC loop of clone pLB25.6.

<400> 83
Gly Gln Arg Thr Phe
1 5

<210> 84
<211> 5
<212> PRT
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<220>
<223> The sequence of the FG loop of clone pLB25.6.

<400> 84
Arg Arg Trp Trp Ala
1 5

<210> 85
<211> 5
<212> PRT
<213> Artificial Sequence

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<223> The sequence of the BC loop of clone pLB25.7.

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Leu Arg Tyr Arg Ser
1 5

<210> 86
<211> 5
<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.7.

<400> 86

Gly Trp Arg Trp Arg

1 5

<210> 87

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB25.9.

<400> 87

Leu Arg Tyr Arg Ser

1 5

<210> 88

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.9.

<400> 88

Gly Trp Arg Trp Arg

1 5

<210> 89

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB25.11.

<400> 89

Gly Gln Arg Thr Phe

1 5

<210> 90

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.11.

<400> 90

Arg Arg Trp Trp Ala

1 5

<210> 91

<211> 5
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<220>
<223> The sequence of the BC loop of clone pLB25.12.

<400> 91
Leu Arg Tyr Arg Ser
1 5

<210> 92
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<223> The sequence of the FG loop of clone pLB25.12.

<400> 92
Gly Trp Arg Trp Arg
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gcagttaccg tgcgt

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<210> 94
<211> 5
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<220>
<223> The sequence of the BC loop of WT from Table 7.

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Ala Val Thr Val Arg
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<220>
<223> The sequence of the FG loop of WT from Table 7.

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<211> 8
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<220>

<223> The sequence of the FG loop of WT from Table 7.

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Gly Arg Gly Asp Ser Pro Ala Ser
1 5

<210> 97

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone 1 from Table 7.

<400> 97

tcgaggttgc ggcgg

15

<210> 98

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone 1 from Table 7.

<400> 98

Ser Arg Leu Arg Arg
1 5

<210> 99

<211> 15

<212> DNA

<213> Artificial Sequence

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<223> The sequence of the FG loop of clone 1 from Table 7.

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ccgccgtgga gggtg

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<210> 100

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> The sequence of the FG loop of clone 1 from Table 7.

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Pro Pro Trp Arg Val
1 5

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<223> The sequence of the BC loop of clone 2 from Table
7.

<400> 101
ggtcagcgaa ctttt

15

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<213> Artificial Sequence

<220>
<223> The sequence of the BC loop of clone 2 from Table
7.

<400> 102
Gly Gln Arg Thr Phe
1 5

<210> 103
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> The sequence of the FG loop of clone 2 from Table
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<400> 103
aggcggtggt gggct

15

<210> 104
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> The sequence of the FG loop of clone 2 from Table
7.

<400> 104
Arg Arg Trp Trp Ala
1 5

<210> 105
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> The sequence of the BC loop of clone 3 from Table
7.

<400> 105
gcgaggtgga cgctt

15

<210> 106
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> The sequence of the BC loop of clone 3 from Table
7.

<400> 106
Ala Arg Trp Thr Leu
1 5

<210> 107
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> The sequence of the FG loop of clone 3 from Table
7.

<400> 107
aggcggtggt ggtgg

15

<210> 108
<211> 5
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<220>
<223> The sequence of the FG loop of clone 3 from Table
7.

<400> 108
Arg Arg Trp Trp Trp
1 5

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<220>
<223> A solubility tail.

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Gly Lys Lys Gly Lys
1 5

<210> 110

<211> 96
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 <213> Artificial Sequence

<220>
 <223> The synthetic Fn3 gene.

<400> 110
 Met Gln Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15
 Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg
 20 25 30
 Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45
 Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60
 Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg
 65 70 75 80
 Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
 85 90 95

<210> 111
 <211> 308
 <212> DNA
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<220>
 <223> The designed Fn3 gene.

<400> 111
 catatgcagg tttctgatgt tccgcgtgac ctggaagttg ttgctgcgac cccgactagc 60
 ctgctgatca gctgggatgc tcttgcagtt accgtgcgtt attaccgtat cacgtacggt 120
 gaaaccgggtg gtaactcccc gggttcaggaa ttcactgtac ctgggttccaa gtctactgct 180
 accatcagcg gcctgaaacc gggtgtcgcac tataccatca ctgtatacgc tgttactggc 240
 cgtgggtgaca gcccagcgag ctccaagcca atctcgatta actaccgtac ctagtaactc 300
 gaggatcc 308

<210> 112
 <211> 96
 <212> PRT
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<220>
 <223> The designed Fn3 gene.

<400> 112
 Met Gln Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15
 Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg
 20 25 30
 Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45
 Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60
 Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg
 65 70 75 80
 Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
 85 90 95

<210> 113

<400> 113
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<210> 114

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> A fusion protein.

<400> 114

Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro
1 5 10 15
Arg Gly Ser His
20

<210> 115

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> A sequence from clone Plb25.1.

<400> 115

Gly Gln Arg Thr Phe Arg Arg Trp Trp Ala
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<210> 116

<211> 10

<212> PRT

<213> Artificial Sequence

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Leu Arg Tyr Arg Ser Gly Trp Arg Trp Arg
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<210> 117

<211> 12

<212> PRT

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Cys Asn Trp Arg Arg Arg Ala Tyr Arg Tyr Trp Arg
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<210> 118

<211> 12

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Ala Arg Met Arg Glu Arg Trp Leu Arg Gly Arg Tyr
1 5 10

<210> 119

<211> 4

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<213> Homo sapiens

<400> 119

Glu Ile Asp Lys
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<210> 120

<211> 4

<212> PRT

<213> Unknown

<220>

<223> Anti-hen egg lysozyme (HEL) antibody.

<400> 120

Arg Asp Tyr Arg
1

<210> 121

<211> 96

<212> PRT

<213> Homo sapiens

<400> 121

Met Gln Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15
Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg
20 25 30
Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45
Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60
Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg
65 70 75 80
Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95